

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		(interpolat\$4 or normail\$5) with (matrix or submatrix) with (weighted or weight\$4) with (four or 4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:33
		S82 and remov\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 07:53
L1	21	removing with row with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 07:55
L2	4	deleting with row with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 07:57
L3	78	normal\$4 with (matrix or submatrix) with neighbor\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:12
L4	272	weighted adj interpolation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:13
L5	22	4 with neighbor\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:16
L7	270	6 and (neighbor or neighbor\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:17

## EAST Search History

L8	89	6 and ((neighbor or neighbor\$5) with four)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:25
L9	1155	normal\$5 with (weighted or weight\$4) with four	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:32
L10	17	(interpolat\$4 or normail\$5) with (matrix or submatrix) with (weighted or weight\$4) with (four or "4")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:38
L12	2	(weighted adj interpolation) with four with (neighbor or neighbor\$5 or adjacent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:43
L13	2	(weighted adj interpolation) with (neighbor or neighbor\$5 or adjacent) with four	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:44
L14	3	((weighted or weight\$4) adj interpolation) with (neighbor or neighbor\$5 or adjacent) with four	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:44
L15	0	normalize adj submatrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:45
L16	4	normaliz\$4 near3 submatrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:46

## EAST Search History

L17	1024	(weighted or weight) with four with (neighbor or neighbor\$4 or adjacent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:47
L18	56630	"382"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 08:47
L19	93	17 and 18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 09:23
L23	279	correlat\$4 with column with vector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 10:09
L24	44	(creating or calculating) with (row adj vector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 10:12
L25	53	(correlating or correlat\$4) with (row adj vector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 10:18
L26	0	deleting adj rows adj that adj contains adj less	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 10:18
L27	41812	fingerprint	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:47

## EAST Search History

L28	560	fingerprint near processing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 10:47
L29	873	removing with (row and column)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 10:48
L30	167	removing with (row and column) with matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:05
L31	12182	reducing with matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:06
L32	147	reducing with matrix with (row and column)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:11
L33	247	decreasing with matrix with (size or dimension)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:14
L34	655	matrix with row with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:23
L35	10	mstrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:23

## EAST Search History

L36	782244	matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:23
L37	2398	36 and ((removing or remove or deleting or delete) with row)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:25
L38	147	37 and 18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:25
L39	8	27 and ((removing or deleting) adj row)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:48
L40	168	27 and (remov\$4 with row)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:53
L41	409	create with (small or reduced or decrease\$4) with matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:54
L42	765	creat\$4 with (small or reduced or decrease\$4) with matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:54
L43	319	41 and remov\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:55

## EAST Search History

L44	557	42 and remov\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 11:54
L45	1	(delet\$4 or remov\$4) with invalid with row with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 12:34
L46	122	(delet\$4 or remov\$4) with row with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 12:45
L48	86645	47and ((creat\$4 or calculat\$4 or comput\$4) with vector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 12:48
L49	2	47 and ((creat\$4 or calculat\$4 or comput\$4) with vector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 12:53
L50	2	((creat\$4 or calculat\$4 or comput\$4) with (row adj vector)) SAME (correlat\$5 with (template or reference))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 12:55
L51	570	vector with corresponds with row	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 12:55
L52	195	51 and correlat\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 12:59

## EAST Search History

L53	0	correlating adj row adj vector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 12:59
L54	2	correlating near3 row near3 vector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 13:00
L55	22	correlat\$4 near5 (row adj vector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 13:09
L56	653	(creat\$4 or calculat\$4 or comput\$4) with (column and row) with vector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 13:54
L57	224	56 and (correlation or correlating or correlate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 14:03
L58	3	correlate with (row adj vector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/08 14:04
S4	27	((captur\$4 or aquir\$4 or obtain\$4) adj image) SAME correlat\$4 SAME matrix SAME (sign or object)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:23
S5	33	(road adj sign) adj detection	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:02
S8	2618520	device and method for recognizing traffic signs	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 16:18

## EAST Search History

S9	0	device and method for recognizing traffic signs	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/31 16:19
S10	0	device and method for recognizing traffic signs	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	ADJ	ON	2006/10/31 16:19
S11	5	device and method for recognizing traffic signs	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	AND	ON	2006/10/31 16:20
S12	0	(device and method for recognizing traffic signs).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	AND	ON	2006/10/31 16:20
S13	194	(device traffic signs).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	AND	ON	2006/10/31 16:20
S14	3	(device recognizing traffic signs).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	AND	ON	2006/10/31 16:20
S15	27	((captur\$4 or aquis\$4 or obtain\$4) adj image) SAME correlat\$4 SAME matrix SAME ((traffic adj sign) or object)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/10/31 16:24
S20	3992	(captur\$3 or obtain\$4 or aquis\$3) adj digital adj image\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 13:51
S21	0	(correlate adj ((region adj interes or roi) near template near matrix)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:07

## EAST Search History

S22	0	(correlate adj ((region adj interest) or roi) near template near matrix)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:07
S23	0	(correlate near ((region adj interest) or roi) near template near matrix)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:08
S24	0	(correlate near ((region adj interest) or roi) near reference near matrix)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:11
S25	1229	correlat\$4 near3 (image or roi or (region adj of adj interest)) near (template or reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:13
S26	7	S19 and S20 and S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:18
S27	33	(road adj sign) adj detection	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 09:25
S28	525	sign adj detection	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 10:10
S31	29212	pattern adj recognition	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 11:01

## EAST Search History

S33	328	color adj segmentation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 11:02
S35	1	region adj of adj interest\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 13:50
S36	1642	correlate near image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 13:52
S39	69	S20 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 14:15
S40	1653	S20 and (object or sign) and (detection or recognition or classification)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/01 15:04
S43	154	template adj matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/02 07:51
S45	1	correlate near5 template near matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/02 08:30
S46	656	correlate near5 template	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/02 09:24

## EAST Search History

S49	24	template adj based adj match\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/02 15:10
S54	588	(rgb and hsi) or ((r adj g adj b) and (hue adj saturation adj intensity))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 09:51
S55	308	S54 and threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 10:33
S56	13	(red or green or blue) near (greater or above) near threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 14:44
S57	88	saturation near (greater or above) near threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 10:36
S58	0	S56 and S57	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 10:35
S59	322	((red or green or blue) or (r or g or b)) near (greater or above) near threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 14:49
S60	88	saturation near (greater or above) near threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 14:47

## EAST Search History

S61	0	S59 and S60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 14:47
S62	0	((red or green or blue) or (r or g or b)) and saturation) near (greater or above) near threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 14:50
S63	14993	threshold near6 varies	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 15:15
S64	5	(color adj threshold) near6 varies	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 15:18
S66	0	(reference or template) near (matrix or set) near contain near binary	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/06 16:34
S71	1566	threshold adj varies	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 13:32
S73	2690	different near4 (light or lighting or brightness or bright) near condition	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 13:33
S78	90	weighted adj threshold	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/07 13:48
S83	3	S82 and remov\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 14:50

## EAST Search History

S84	4	S82 and vector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:05
S85	21	(removing near row) and (removing near column)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:13
S86	21	(removing near (row and column))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:09
S87	2688	(removing near row) or (removing near column)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:29
S88	1	S87 and S79	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:11
S89	41	removing near row near column	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:12
S90	19	S87 and "382"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:38
S91	58	invalid adj row	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:39

## EAST Search History

S92	0	(removing or deleting or blocking) near (row or column) near (less or below) near binary	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:41
S93	2	(removing or deleting or blocking) near (row or column) near (less or below)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:42
S94	10617	binarization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 15:42
S95	302	S94 and S79	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:04
S97	89	normalizing near matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:05
S98	0	S97 and S96	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:06
S99	1	S96 and (normal\$4 near (matrix or frame or image or submatrix))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:07
S10 0	3	correlating near (column adj vector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:10

## EAST Search History

S10 1	4	correlating near3 (column adj vector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:11
S10 2	5	correlating near6 (column adj vector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:11
S10 3	873	(removing with row) and (removing with column)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:16
S10 4	1	(creating with (row adj vector)) and (correlating with (row adj vector))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:17
S10 5	2	(correlating with (row adj vector))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:19
S10 6	7017	removing with row	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:19
S10 7	21	S106 with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:27
S10 8	4	removing with invalid with row	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:27

## EAST Search History

S10 9	1	removing with row with contain\$4 with (less or below) with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:28
S11 0	3	removing with row with (less or below) with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:29
S11 1	126	normali\$4 with (matrix or submatrix or frame or image) with neighbor\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/07 16:30